

## CASEMENT SPECIFICATIONS

### General:

Windows shall be series 6220, 6221, and 6280 Casement window systems as described in the brochure and manufactured by International Window Corporation.

### Material:

Frames and sash members shall be aluminum extrusions of 6063-T5 alloy and temper. All sections shall conform to details within commercial tolerances, and in all cases shall be free from defects impairing strength, durability, or appearance.

### Finish:

All extruded aluminum windows shall be furnished in bronze paint, white paint, mojave beige (IWC Arizona only), and clear or bronze anodize.

### Construction:

Corners of all frames and panels shall be accurately cut to present neat, tight-fitting joints and shall be securely joined with self-tapping zinc plated steel screws. Corner joints of the frame shall be fully caulked to prevent leakage. The sill must include a high inside water leg and condensation trap and be so designed that water will run off to the outside only.

### Weatherstripping:

Uninterrupted weatherstripping shall be attached to the sash and frame to form a continuous dual seal barrier between the panel and the frame.

### Glazing:

Vent panels shall be constructed to allow for either shop or field glazing and installation into the frame either before or after plastering.

### Hardware:

All vents shall be operable with dyad rotary operator. Casement windows shall be equipped with a positive cam latch system that engages a keeper located on the sash. Panels shall not be removable from the outside when in a locked position. Concealed hinges shall be located at the head and sill of the frame for alignment and ease of operation.

### Screens:

Screen frames shall be fabricated from,  $\frac{7}{16}$ " x  $\frac{3}{4}$ " tubular roll-formed aluminum section. The screen cloth shall be 18 x 16 mesh fiberglass. Screens shall be removable from the inside. When in place, they shall not interfere with the operation of casement panels or impede water drainage from the sill.

### Erection:

All window frames shall be set by others in a level, plumb and square condition without distortion. Panels must be installed without forcing, springing or bowing. Units shall be properly caulked to prevent water leakage. After installation, the general contractor shall be responsible for protecting the units during the balance of construction. Upon completion of construction, the general contractor shall be responsible for cleaning the aluminum and glass without the use of abrasive agents.

### Performance tested to:

- AAMA/ANSI 101/I.S.2-97 Standards
- Security tested to California & L.A. County ordinance
- Thermally tested to NFRC 100 and 200.
- Sealed insulated glass to "A" level
- Sound tested to ASTM E90-99. STC determined in accordance with ASTM E 413-87.

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**CASEMENT NFRC**

| 6220 RESIDENTIAL<br>3/4" INSULATING GLASS UNIT<br>PERFORMANCE | U-Factor Residential Only |             |               |                              |                        |                                    | SHGC       |               |                        |
|---|---------------------------|-------------|---------------|------------------------------|------------------------|------------------------------------|------------|---------------|------------------------|
|   | Air<br>Fill               | w/<br>Argon | Sculp<br>Grid | Sculp<br>Grid<br>w/<br>Argon | 1/8" x<br>3/4"<br>Grid | 1/8" x<br>3/4"<br>Grid w/<br>Argon | No<br>Grid | Sculp<br>Grid | 1/8" x<br>3/4"<br>Grid |
| SS clear/ SS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.64       | 0.55          | 0.64                   |
| DS clear/ DS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.64       | 0.55          | 0.64                   |
| 3/16 clear/ 3/16 clear  | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.64       | 0.55          | 0.64                   |
| SS Low e(.043)/ SS clear                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.35       | 0.3           | 0.35                   |
| DS Low e (.043)/ DS clear                                     | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.35       | 0.3           | 0.35                   |
| 3/16 Low e (.043)/ 3/16 clear                                 | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.35       | 0.3           | 0.35                   |
| SS bronze/ SS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| DS bronze/ DS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| 3/16 bronze/ 3/16 clear                                       | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.53       | 0.45          | 0.53                   |
| 3/16 Solarcool/ 3/16 clear                                    | 0.69                      | 0.67        | 0.67          | 0.67                         | 0.67                   | 0.67                               | 0.33       | 0.29          | 0.33                   |
| SS grey/ SS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.49       | 0.42          | 0.49                   |
| DS grey/ DS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.49       | 0.42          | 0.49                   |
| 3/16 grey/ 3/16 clear   | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.49       | 0.42          | 0.49                   |
| DS greylite # 31/ DS clear                                    | 0.67                      | 0.65        | 0.65          | 0.65                         | 0.65                   | 0.65                               |            |               |                        |
| SS Azurelite/ SS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| DS Azurelite/ DS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| 3/16 Azurelite/ 3/16 clear                                    | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.53       | 0.45          | 0.53                   |
| SS bronze/ SS Low e (.043)                                    | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| DS bronze/ DS Low e (.043)                                    | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| 3/16 bronze/ 3/16 Low e (.043)                                | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.34       | 0.3           | 0.34                   |
| SS grey/ SS Low e (.043)                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.49       | 0.28          | 0.49                   |
| DS grey/ DS Low e (.043)                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.49       | 0.28          | 0.49                   |
| 3/16 grey/ 3/16 Low e (.043)                                  | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.49       | 0.28          | 0.49                   |
| SS Azurelite/ SS Low e (.043)                                 | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| DS Azurelite/ DS Low e (.043)                                 | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| 3/16 Azurelite/ 3/16 Low e (.043)                             | 0.52                      | 0.57        | 0.52          | 0.57                         | 0.52                   | 0.34                               | 0.3        | 0.34          |                        |
| 3/16 Solex/ 3/16 Low e (.043)                                 | 0.52                      | 0.57        | 0.52          | 0.57                         | 0.52                   |                                    |            |               |                        |

U-Factor is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\* ft<sup>2</sup>\*°F. Lower U-Factors indicate better performance. Winter nighttime U-Factors are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

## AWNING SPECIFICATIONS

### General:

Windows shall be series 6220, 6221, and 6280 Awning window systems as described in the brochure and manufactured by International Window Corporation.

### Material:

Frames and sash members shall be aluminum extrusions of 6063-T5 alloy and temper. All sections shall conform to details within commercial tolerances, and in all cases shall be free from defects impairing strength, durability, or appearance.

### Finish:

All extruded aluminum windows shall be furnished in bronze paint, white paint, mojave beige (IWC Arizona only), and clear or bronze anodize.

### Construction:

Corners of all frames and panels shall be accurately cut to present neat, tight-fitting joints and shall be securely joined with self-tapping zinc plated steel screws. Corner joints of the frame shall be fully caulked to prevent leakage. The sill must include a high inside water leg and condensation trap and be so designed that water will run off to the outside only.

### Weatherstripping:

Uninterrupted weatherstripping shall be attached to the sash and frame to form a continuous dual seal barrier between the panel and the frame.

### Glazing:

Vent panels shall be constructed to allow for either shop or field glazing and installation into the frame either before or after plastering.

### Hardware:

All vents shall be operable with scissors type rotary operator. Awning windows shall be equipped with a positive cam latch system that engages a keeper located on the sash. Panels shall not be removable from the outside when in a locked position. Concealed hinges shall be located at the jambs of the frame for alignment and ease of operation.

### Screens:

Screen frames shall be fabricated from,  $\frac{7}{16}$ " x  $\frac{3}{4}$ " tubular roll-formed aluminum section. The screen cloth shall be 18 x 16 mesh fiberglass. Screens shall be removable from the inside. When in place, they shall not interfere with the operation of casement panels or impede water drainage from the sill.

### Erection:

All window frames shall be set by others in a level, plumb and square condition without distortion. Panels must be installed without forcing, springing or bowing. Units shall be properly caulked to prevent water leakage. After installation, the general contractor shall be responsible for protecting the units during the balance of construction. Upon completion of construction, the general contractor shall be responsible for cleaning the aluminum and glass without the use of abrasive agents.

### Performance Tested to:

- AAMA/ANSI 101/I.S.2-97 Standards
- Thermally tested to NFRC 100 and 200.
- Security tested to California & L.A. County ordinance
- Sealed insulated glass to "A" level

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**AWNING NFRC**

| 6220 RESIDENTIAL<br>3/4" INSULATING GLASS UNIT<br>PERFORMANCE | U-Factor Residential Only |             |               |                              |                        |                                    | SHGC       |               |                        |
|---|---------------------------|-------------|---------------|------------------------------|------------------------|------------------------------------|------------|---------------|------------------------|
|   | Air<br>Fill               | w/<br>Argon | Sculp<br>Grid | Sculp<br>Grid<br>w/<br>Argon | 1/8" x<br>3/4"<br>Grid | 1/8" x<br>3/4"<br>Grid w/<br>Argon | No<br>Grid | Sculp<br>Grid | 1/8" x<br>3/4"<br>Grid |
| SS clear/ SS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.64       | 0.55          | 0.64                   |
| DS clear/ DS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.64       | 0.55          | 0.64                   |
| 3/16 clear/ 3/16 clear  | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.64       | 0.55          | 0.64                   |
| SS Low e(.043)/ SS clear                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.35       | 0.3           | 0.35                   |
| DS Low e (.043)/ DS clear                                     | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.35       | 0.3           | 0.35                   |
| 3/16 Low e (.043)/ 3/16 clear                                 | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.35       | 0.3           | 0.35                   |
| SS bronze/ SS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| DS bronze/ DS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| 3/16 bronze/ 3/16 clear                                       | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.53       | 0.45          | 0.53                   |
| 3/16 Solarcool/ 3/16 clear                                    | 0.69                      | 0.67        | 0.67          | 0.67                         | 0.67                   | 0.67                               | 0.33       | 0.29          | 0.33                   |
| SS grey/ SS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.49       | 0.42          | 0.49                   |
| DS grey/ DS clear   | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.49       | 0.42          | 0.49                   |
| 3/16 grey/ 3/16 clear   | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.49       | 0.42          | 0.49                   |
| DS greylite # 31/ DS clear                                    | 0.67                      | 0.65        | 0.65          | 0.65                         | 0.65                   | 0.65                               |            |               |                        |
| SS Azurelite/ SS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| DS Azurelite/ DS clear  | 0.67                      | 0.65        | 0.67          | 0.65                         | 0.67                   | 0.65                               | 0.53       | 0.45          | 0.53                   |
| 3/16 Azurelite/ 3/16 clear                                    | 0.69                      | 0.67        | 0.69          | 0.66                         | 0.69                   | 0.66                               | 0.53       | 0.45          | 0.53                   |
| SS bronze/ SS Low e (.043)                                    | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| DS bronze/ DS Low e (.043)                                    | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| 3/16 bronze/ 3/16 Low e (.043)                                | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.34       | 0.3           | 0.34                   |
| SS grey/ SS Low e (.043)                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.49       | 0.28          | 0.49                   |
| DS grey/ DS Low e (.043)                                      | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.49       | 0.28          | 0.49                   |
| 3/16 grey/ 3/16 Low e (.043)                                  | 0.56                      | 0.52        | 0.57          | 0.52                         | 0.57                   | 0.52                               | 0.49       | 0.28          | 0.49                   |
| SS Azurelite/ SS Low e (.043)                                 | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| DS Azurelite/ DS Low e (.043)                                 | 0.53                      | 0.5         | 0.53          | 0.5                          | 0.53                   | 0.5                                | 0.34       | 0.3           | 0.34                   |
| 3/16 Azurelite/ 3/16 Low e (.043)                             | 0.52                      | 0.57        | 0.52          | 0.57                         | 0.52                   | 0.34                               | 0.3        | 0.34          |                        |
| 3/16 Solex/ 3/16 Low e (.043)                                 | 0.52                      | 0.57        | 0.52          | 0.57                         | 0.52                   |                                    |            |               |                        |

U-Factor is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\* ft2\*\*F. Lower U-Factors indicate better performance. Winter nighttime U-Factors are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

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